Action Item Summary EPA Technical Meeting #4

January 12, 2015: 10:00 am – 12:00 pm **DWR - Bonderson Bldg** | 901 P Street, Room 422, Sacramento CA 95814

I. Introductions:

In-person attendees: Cassandra Enos (DWR), Ken Bogdan (DWR) Tim Vendlinski (EPA), Stephanie Skophammer (EPA), Erin Foresman (EPA), Steve Centerwall (ICF), , Marc Ebbin (EMS), Larry Rabin (USFWS), Cathy Marcinkevage (NMFS),

Telephone attendees: David Zippin (ICF), Dan Hytrek (NMFS), Peg Romanik (DOI), Kaylee Allen (DOI)

II. Topics for Discussion:

- A. ICF gave a presentation on Regional HCPs, ESA, and NEPA requirements. (Attached)
 - Regional HCP's how they work
 - Examples of Approved HCPs
 - CEQA/NEPA Compliance level of detail needs
 - ESA level of detail needs
 - BDCP Mitigation Approach

B. Discussion of EPA comments:

Topic 1: EPA is concerned that the relationship between the CM2 analysis and the current Reclamation planning efforts in Yolo Bypass are not clearly enough defined, including additional project-level analysis, relationship to BiOp, and if additional water would be needed to flood the bypass. Are impacts of CM2 are designed to offset impacts from CM1? [Note: For reference, a chart itemizing the 22 Conservation Measures is attached below, but was not presented at the meeting.]

Discussion Items:

- EPA concerned that there is less specificity in the BDCP than in the existing BiOp RPAs (Sec. 1.6 & 1.7). Due to this lack of specificity the EIS fails to disclose impacts to the public.
- EPA questions whether there was a sufficient record for NMFS and

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USFWS to make determinations under ESA.

Topic 2: How will the forecasted benefits to resident and migratory fishes from CM2 and CM4 be estimated and compared to the potential adverse effects caused by CM1, CM2, and CM4?

Areas of Agreement:

- o ICF explained that ESA Section 10 permits require CMs 1-22 (the construction of the facilities *plus* all the restoration projects) are inextricably linked as a package of conservation measures that *will be implemented together* to offset the collective impacts of all covered activities. Furthermore, these CMs will be implemented in "rough step" to keep up temporally with potentially adverse impacts, and to continually serve to offset the potentially adverse impacts.
- O EPA has role under NEPA to evaluate the EISs regarding both compliance with NEPA as an informational document as well as whether the proposed federal action will have unacceptable environmental impacts; and under the Clean Water Act to assess whether beneficial uses are adequately protected consistent with the SWRCB's Bay Delta Water Quality Control Plan.
- The BDCP and BDCP EIR/S need to clearly outline the logic steps showing how CMs address covered species impacts related to CM1.
- o BDCP and EIR/S need to be clear that through the Adaptive Management Plan, CMs can be modified if monitoring shows they are not as successful as anticipated in meeting the biological goals and objectives in the HCP.

Action Items:

 As identified in Technical Meetings 1-3, ICF is working on several action items that will improve the 'logic chain' between analyses and conclusions.

Topic 3: EPA concerned that BDCP and DEIR/EIS do not include adequate detail regarding export operations. In the south Delta, more detail is sought in regards to the Corps permit for SWP Banks operations and how BDCP use of that facility would meet Corps' goal of minimizing erosion. Additionally a description of CVP/SWP operations with and without each alternative should be included in Chapter 3 and add more detail to the north Delta bypass rules description. EPA also seeks clarification regarding E/I ratio used for BDCP.

Areas of Agreement:

 Documents should provide a good description of CVP/SWP Ops, in particular with regards to the No Action/Existing Conditions

Action Items:

- ICF will review description of operations in documents and provide additional detail.
- o DWR will provide a response to EPA regarding the USACE permit.
- DWR will have CH2 contact EPA to discuss application of E/I ratio in BDCP modeling.

C. Review/Discussion of additional EPA comments

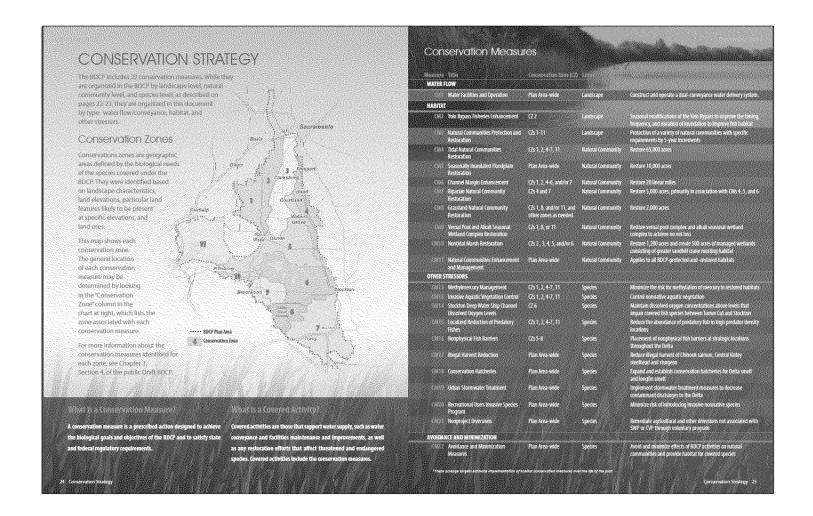
- EPA made reference to articles in the scientific literature that identified lessons learned about regional conservation planning approaches and adaptive management methods. [Note: For reference, several of these articles are cited below, but these articles were not discussed at the meeting.]
- DWR commented that the BDCP will have an Implementation Office and Governance Structure that will facilitate implementation, and that the Adaptive Management Program will be in-place to address uncertainty of CMs.

D. Review/Discussion of prior meeting summaries

- The group agreed that the meeting summaries accurately capture the dialogue fostered by the three technical meetings, and the action items that will be pursued by DWR/ICF as they prepare the Supplemental DEIS.
- DWR will revise meeting notes to incorporate USFWS comments on Technical meeting 3.
- Meeting notes and Action Items will be shared with Policy Group

III. Wrap-Up and Next Steps

- Policy Group to meet on January 15th
- DWR to share draft language (as described in Action Items) sometime around March, 2015



References about regional conservation planning and adaptive management

- 1. Regional Conservation Planning and Rare Plants (Witham et al., FREMONTIA, JAN 2014)
- 2. <u>Six Common Mistakes in Conservation Priority Setting</u> (Game et al., Conservation Biology, 2013)
- 3. <u>Incorporating Climate Science in Applications of the U.S. Endangered Species Act for Aquatic Species</u> (McClure et al., Conservation Biology, 2013)
- 4. <u>Local Land-Use Planning to Conserve Biodiversity: Planners' Perspectives on What Works</u> (Stokes et al., Conservation Biology, 2010)
- 5. Hitting the target and missing the point: target-based conservation planning in context (Carwardine et al., Conservation Biology, 2008)
- 6. Adaptive Management of Natural Resources: Theory, Concepts, and Management Institutions (Stankey et al., USDA-USFS General Technical Report).

http://www.fs.fed.us/pnw/pubs/pnw_gtr654.pdf